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1-800-Belden1



### General Description:

20 AWG stranded (7x28) .038" tinned copper conductors, Datalene® insulation, twisted pairs, overall polyester isolation tape plus a tinned copper braid shield (95% coverage), drain wire, PVC jacket.

### Usage (Overall)

**Suitable Applications:** IEEE 802.3 Transceiver Cable

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

# Pairs	AWG	Stranding	Conductor Material
4	20	7x28	TC - Tinned Copper

**Total Number of Conductors:** 8

#### Insulation

**Insulation Material:**

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Datalene®	FHDPE - Foam High Density Polyethylene	0.508

#### Inner Shield

**Inner Shield Material:**

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

**Inner Shield Drain Wire AWG:**

AWG
22

**Inner Shield Drain Wire Stranding:** 7x30

**Inner Shield Drain Wire Conductor Material:** TC - Tinned Copper

#### Outer Shield

**Outer Shield Material:**

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	95

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.889

#### Overall Cable

**Overall Nominal Diameter:** 10.109 mm

#### Pair

**Pair Color Code Chart:**

Number	Color
1	Gray & White
2	Yellow & Orange
3	Blue & Green
4	Black & Red

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	138.403 Kg/Km
Max. Recommended Pulling Tension:	778.435 N
Min. Bend Radius/Minor Axis:	101.600 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2, CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2919 (30 V 80°C)
IEEE Specification:	IEEE802.3 10Base5
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Customer Part Number Reference Specification:	DEC Part No. 17-01320-00

### Flame Test

UL Flame Test:	UL1685 UL Loading
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### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	89901

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

78

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

54.7927

### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

96.7895

### Nominal Velocity of Propagation:

VP (%)

78

### Nominal Delay:

Delay (ns/m)

4.2653

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

31.1695

### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)
6.2339

**Max. Attenuation:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 m)
	10			6

**Max. Operating Voltage - UL:**

Voltage	Description
30 V RMS	UL AWM Style 2919
150 V RMS	CL2
300 V RMS	CM

**Max. Recommended Current:**

Current
2.8 Amps per conductor @ 25°C

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9892 0061000	305 MT	45.813 KG	BLUE, LIGHT	C	4PR #20 FHDPE/PVC SH PVC
9892 006500	152 MT	23.360 KG	BLUE, LIGHT	C	4PR #20 FHDPE/PVC SH PVC
9892 0065000	1,524 MT	240.405 KG	BLUE, LIGHT	C	4 PR #20 FHDPE/PVC SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

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